

This listing of claims will replace all prior versions, and listings of claims in the application.

Listing of Claims:

1. (Withdrawn) A method for storing and referencing symbolically linked information comprising the steps of:

processing a symbol to generate a master symbol formatted according to a predetermined structure;

determining a unique parent identifier corresponding to the master symbol;

storing the parent identifier and the master symbol in a master symbol database wherein the master symbol is linked to the parent identifier;

storing at least one information element wherein the at least one information element is linked to the parent identifier, wherein each master symbol is structured according to a symbol template containing at least one symbol field and wherein each master symbol includes at least one symbol segment corresponding respectively to the at least one symbol field defined by the symbol template.

2. (Withdrawn) The method according to claim 1, wherein the step of processing the symbol to generate the master symbol includes the step of applying a set of character rules to the symbol.

3. (Withdrawn) The method according to claim 1, wherein the step of processing the symbol to generate the master symbol includes the step of applying a set of process rules to the symbol.

4. (Withdrawn) The method according to claim 1, wherein the at least one information element is a document.

5. (Cancelled)

6. (Cancelled)

7. (Withdrawn) The method according to claim 1, wherein each master symbol refers to a security issued by a company.

8. (Withdrawn) The method according to claim 7, wherein the symbol template includes a root symbol field referring to the name of a security and a source symbol field referring to a country in which the security is traded.

9. (Withdrawn) The method according to claim 1, wherein the step of storing at least one information element includes the steps of generating an information element identifier, storing the information element identifier and the parent identifier so that the parent identifier is linked to the information element identifier, and storing the information element and the information element identifier so that the information element identifier is linked to the information element.

10. (Withdrawn) The method according to claim 1, wherein each symbol segment comprises an ASCII (American Standard Code for Information Interchange) string.

11. (Withdrawn) The method according to claim 9, wherein the parent identifier is linked to the information element identifier in a relational database.

12. (Previously presented) A computerized method for the archival of symbolically linked information comprising the steps of:

receiving, at a computer, an information element and at least an input symbol;

normalizing the input symbol to generate a normalized symbol, said normalized symbol being in a standardized form according to a predetermined structure, the step of normalizing including applying one of a set of character rules and a set of process rules to the input symbol to generate the normalized symbol;

providing a master symbol database containing a set of master symbols and a set of parent identifiers, wherein each master symbol includes at least one symbol segment;

searching ~~a~~ the master symbol database using the normalized symbol to find a matching

master symbol and linked parent identifier; and

storing at least the parent identifier and the information element so that the parent identifier is linked to the information element,

wherein each master symbol is structured according to a symbol template containing at least one symbol field and wherein each master symbol includes at least one symbol segment corresponding respectively to the at least one symbol field defined by the symbol template.

13. (Previously presented) The method according to claim 12, wherein the step of normalizing the input symbol to generate the normalized symbol includes the step of applying a set of character rules to the input symbol.

14. (Previously presented) The method according to claim 12, wherein the step of normalizing the input symbol to generate the normalized symbol includes the step of applying a set of process rules to the input symbol.

15. (Original) The method according to claim 12, wherein the information element is a document.

16. (Cancelled)

17. (Cancelled)

18. (Previously presented) The method according to claim 12, wherein each master symbol refers to a security issued by a company.

19. (Original) The method according to claim 18, wherein the symbol template includes a root symbol field referring to the name of a security and a source symbol field referring to a country in which the security is traded.

20. (Previously presented) The method according to claim 12, wherein the step of storing at least the parent identifier and the information element includes the steps of generating an information element identifier, storing the information element identifier and the parent identifier so that the parent identifier is linked to the information element identifier, and storing the identifier element and the information element identifier so that the information element identifier is linked to the information element.

21. (Previously presented) The method according to claim 12, wherein each symbol segment comprises an ASCII (American Standard Code for Information Interchange) string.

22. (Original) The method according to claim 20, wherein the parent identifier is linked to the information element identifier in a relational database.

23. (Previously presented) A computerized method for the archival of symbolically linked information comprising the steps of:

receiving, at a computer, an information element and at least an input symbol;

normalizing the input symbol to generate a normalized symbol, said normalized symbol being in a standardized form according to a predetermined structure;

searching a master symbol database using the normalized symbol to find a matching master symbol and linked parent identifier;

storing at least the parent identifier and the information element so that the parent identifier is linked to the information element;

searching a contributor database to find a predominant use segment if the normalized symbol contains an unresolved segment, ~~searching a contributor database to find a predominant use segment~~, and assigning the predominant use segment from searching the contributor database to the unresolved segment;

wherein each master symbol is structured according to a symbol template containing at least one symbol field and wherein each master symbol includes at least one symbol segment corresponding respectively to the at least one symbol field defined by the symbol template.

24. (Original) The method according to claim 12, further comprising the steps of:
if the normalized symbol is not found in the master symbol database, searching a database using the input symbol, and retrieving a parent identifier linked to the input symbol.

25. (Previously presented) A computerized method for the retrieval of symbolically linked information, comprising the steps of:

receiving, at a computer, an input symbol;

normalizing the input symbol to generate a normalized symbol, said normalized symbol being in a standardized form according to a predetermined structure, the step of normalizing including applying one of a set of character rules and a set of process rules to the input symbol to generate the normalized symbol;

providing a master symbol database containing a set of master symbols and a set of parent identifiers, wherein each master symbol includes at least one symbol segment;

searching ~~a~~ the master symbol database using the normalized symbol to find a matching master symbol and a parent identifier linked to the master symbol;

searching an information element database to find an information element linked with the parent identifier; and

retrieving the information element linked to the parent identifier,

wherein each master symbol is structured according to a symbol template containing at least one symbol field and wherein each master symbol includes at least one symbol segment corresponding respectively to the at least one symbol field defined by the symbol template.

26. (Previously presented) A computerized method for the retrieval of symbolically linked information, comprising the steps of:

receiving, at a computer, an input symbol;

normalizing the input symbol to generate a normalized symbol in a standardized form according to a predetermined structure;

searching a master symbol database using the normalized symbol to find a matching master symbol and a parent identifier linked to the master symbol;

searching an information element database to find an information element linked with the

parent identifier;

retrieving the information element linked to the parent identifier;

determining whether the input symbol includes an unresolved segment; and

searching a client database to find a client preference segment if the input symbol contains an unresolved segment, ~~searching a client database to find a client preference segment~~, and assigning the client preference segment from searching the client database to the unresolved segment;

wherein each master symbol is structured according to a symbol template containing at least one symbol field and wherein each master symbol includes at least one symbol segment corresponding respectively to the at least one symbol field defined by the symbol template.

27. (Previously Presented) The method according to claim 25, wherein the step of normalizing the input symbol to generate the normalized symbol includes the step of applying a set of character rules to the symbol.

28. (Previously presented) The method according to claim 25, wherein the step of normalizing the input symbol to generate the normalized symbol comprises applying a set of process rules to the input symbol.

29. (Original) The method according to claim 25, wherein the information element is a document.

30. (Original) The method according to claim 25, wherein the master symbol database stores a set of master symbols, wherein each master symbol is structured according to a symbol template containing at least one symbol field.

31. (Cancelled)

32. (Cancelled)

33. (Previously presented) The method according to claim 25, wherein each master symbol refers to a security issued by a company.

34. (Original) The method according to claim 33, wherein the symbol template includes a root symbol field referring to the name of a security and a source symbol field referring to a country in which the security is traded.

35. (Previously presented) The method according to claim 25, wherein each symbol segment comprises an ASCII (American Standard Code for Information Interchange) string.

36. (Original) The method according to claim 25, wherein the information database is a relational database.

37. (Withdrawn) A document repository system allowing electronic archival of documents using an input symbol comprising:

- a storage device;

- a network interface;

- a processor coupled to the storage device, said processor adapted to:

- store a database of master symbols, wherein each master symbol is linked to a parent

- identifier and a document database;

- receive an input symbol and a document via the network interface.

- normalize the input symbol to obtain a normalized input symbol formatted according to a predetermined structure, search the master database using the normalized input symbol to find a matching master symbol and a linked parent identifier,

- store the document in the document database so that the document is linked to the parent identifier,

wherein each master symbol is structured according to a symbol template containing at least one symbol field and wherein each master symbol includes at least one symbol segment corresponding respectively to the at least one symbol field defined by the symbol template.

38. (Withdrawn) The document repository system according to claim 37, wherein:
if the input symbol contains at least one unresolved segment, for each unresolved symbol segment, the processor searches a contributor historical pattern database to find a predominant use segment, and assigns the predominant use segment to the unresolved segment.

39. (Previously presented) A document repository system allowing electronic retrieval of documents using an input symbol, comprising:

a storage device storing a master symbol database and a document database, the master symbol database storing master symbols, wherein each master symbol is linked to a parent identifier, and the document database storing documents linked to a parent identifier;

a network interface;

a processor performing steps comprising:

receiving an input symbol via the network interface,

normalizing the input symbol to obtain a normalized input symbol, said normalized input symbol being a standardized form according to a predetermined structure, the step of normalizing including applying one of a set of character rules and a set of process rules to the input symbol to generate the normalized input symbol,

searching the symbol database using the normalized input symbol to find a matching master symbol and a linked parent identifier, and

retrieving documents from the document database that are linked to the parent identifier,

wherein each master symbol is structured according to a symbol template containing at least one symbol field and wherein each master symbol includes at least one symbol segment corresponding respectively to the at least one symbol field defined by the symbol template.

40. (Original) The document repository system according to claim 39, wherein: if the input symbol contains at least one unresolved segment, for each unresolved symbol segment, the processor searches a client database to find a client preference segment, and assigns the client preference segment to the unresolved segment.

41. (Withdrawn) A method for storing and referencing symbolically linked information in an environment wherein a plurality of different symbols are conventionally utilized to refer to a single entity, comprising the steps of:

- receiving a plurality of input symbols, each pertaining to a same single entity;
- for each of the plurality of different symbols, generating a normalized master symbol formatted according to a predetermined structure;
- determining a unique parent symbol and corresponding to the master symbols;
- storing the parent symbol and the plurality of master symbols in a master symbol database

wherein each of the plurality of normalized master symbols is linked to the parent symbol, wherein each master symbol is structured according to a symbol template containing at least one symbol field and wherein each master symbol includes at least one symbol segment corresponding respectively to the at least one symbol field defined by the symbol template.

42. (Withdrawn) A document repository system allowing electronic retrieval of documents related to a plurality of entities, each of the entities conventionally referred to utilizing a plurality of different symbols comprising:

- a processor, wherein the processor is adapted to:

- receive a plurality of input symbols, each pertaining to a same single entity;

- for each of the plurality of input symbols, generate a normalized master symbol formatted according to a predetermined structure;

- determine a unique parent symbol corresponding to the master symbols;

- store the parent symbol and the plurality of master symbols in a master symbol database

wherein each of the plurality of normalized master symbols is linked to the parent symbol, wherein each master symbol is structured according to a symbol template containing at least one symbol field and wherein each master symbol includes at least one symbol segment corresponding respectively to the at least one symbol field defined by the symbol template.

43. (Previously presented) A computerized method for the archival of symbolically linked information, comprising:

receiving, at a computer, an information element and at least an input symbol;

normalizing the input symbol, based on a historical pattern of a contributor of the information element, to generate a normalized symbol, said normalized symbol being in a standardized form according to a predetermined structure;

providing a master symbol database containing a set of master symbols and a set of parent identifiers, wherein each master symbol includes at least one symbol segment;

searching ~~a~~ the master symbol database using the normalized symbol to find a matching master symbol and linked parent identifier; and

storing at least the parent identifier and the information element so that the parent identifier is linked to the information element,

wherein each master symbol is structured according to a symbol template containing at least one symbol field and wherein each master symbol includes at least one symbol segment corresponding respectively to the at least one symbol field defined by the symbol template.

44. (Previously presented) A computerized method for the archival of symbolically linked information, comprising:

receiving, at a computer, an information element and at least an input symbol;

normalizing the input symbol, based on a preference of a contributor of the information element, to generate a normalized symbol, said normalized symbol being in a standardized form according to a predetermined structure;

providing a master symbol database containing a set of master symbols and a set of parent identifiers, wherein each master symbol includes at least one symbol segment;

searching ~~a~~the master symbol database using the normalized symbol to find a matching master symbol and linked parent identifier; and

storing at least the parent identifier and the information element so that the parent identifier is linked to the information element,

wherein each master symbol is structured according to a symbol template containing at least one symbol field and wherein each master symbol includes at least one symbol segment corresponding respectively to the at least one symbol field defined by the symbol template.

45. (Previously presented) A computerized method for the retrieval of symbolically linked information, comprising:

receiving, at a computer, an input symbol;

normalizing the input symbol, based on a historical pattern of a submitter of the input symbol, to generate a normalized symbol, said normalized symbol being in a standardized form according to a predetermined structure;

providing a master symbol database containing a set of master symbols and a set of parent identifiers, wherein each master symbol includes at least one symbol segment;

searching ~~a~~the master symbol database using the normalized symbol to find a matching master symbol and a parent identifier linked to the master symbol;

searching an information element database to find an information element linked with the parent identifier; and

retrieving the information element linked to the parent identifier,

wherein each master symbol is structured according to a symbol template containing at least one symbol field and wherein each master symbol includes at least one symbol segment corresponding respectively to the at least one symbol field defined by the symbol template.

46. (Previously presented) A computerized method for the archival of symbolically linked information, comprising:

receiving, at a computer, an information element and at least an input symbol;

normalizing the input symbol, based on an identification of a contributor of the information element, to generate a normalized symbol, said normalized symbol being in a standardized form according to a predetermined structure;

providing a master symbol database containing a set of master symbols and a set of parent identifiers, wherein each master symbol includes at least one symbol segment;

searching ~~a~~the master symbol database using the normalized symbol to find a matching master symbol and linked parent identifier; and

storing at least the parent identifier and the information element so that the parent identifier is linked to the information element,

wherein each master symbol is structured according to a symbol template containing at least one symbol field and wherein each master symbol includes at least one symbol segment corresponding respectively to the at least one symbol field defined by the symbol template.

47. (Previously presented) A computerized method for the retrieval of symbolically linked information, comprising:

receiving, at a computer, an input symbol;

normalizing the input symbol, based on an identification of a submitter of the input symbol, to generate a normalized symbol, said normalized symbol being in a standardized form according to a predetermined structure;

providing a master symbol database containing a set of master symbols and a set of parent identifiers, wherein each master symbol includes at least one symbol segment;

searching ~~a~~the master symbol database using the normalized symbol to find a matching master symbol and a parent identifier linked to the master symbol;

searching an information element database to find an information element linked with the parent identifier; and

retrieving the information element linked to the parent identifier,

wherein each master symbol is structured according to a symbol template containing at least one symbol field and wherein each master symbol includes at least one symbol segment corresponding respectively to the at least one symbol field defined by the symbol template.

48. (Previously presented) A computerized method for the retrieval of symbolically linked information, comprising:

receiving, at a computer, an input symbol;

normalizing the input symbol, based on a preference of a submitter of the input symbol, to generate a normalized symbol, said normalized symbol being in a standardized form according to a predetermined structure;

providing a master symbol database containing a set of master symbols and a set of parent identifiers, wherein each master symbol includes at least one symbol segment;

searching ~~a~~the master symbol database using the normalized symbol to find a matching master symbol and a parent identifier linked to the master symbol;

searching an information element database to find an information element linked with the parent identifier; and

retrieving the information element linked to the parent identifier,

wherein each master symbol is structured according to a symbol template containing at least one symbol field and wherein each master symbol includes at least one symbol segment corresponding respectively to the at least one symbol field defined by the symbol template.

49. (Previously presented) A computerized method for the retrieval of symbolically linked information, comprising:

receiving, at a computer, an input symbol;

normalizing the input symbol, based on a context of the input symbol, to generate a normalized symbol, said normalized symbol being in a standardized form according to a predetermined structure;

providing a master symbol database containing a set of master symbols and a set of parent identifiers, wherein each master symbol includes at least one symbol segment;

searching ~~a~~the master symbol database using the normalized symbol to find a matching master symbol and a parent identifier linked to the master symbol;

searching an information element database to find an information element linked with the parent identifier; and

retrieving the information element linked to the parent identifier,

wherein each master symbol is structured according to a symbol template containing at least one symbol field and wherein each master symbol includes at least one symbol segment corresponding respectively to the at least one symbol field defined by the symbol template.